

**UNITED STATES PATENT AND TRADEMARK OFFICE**

*Examiner:* Kuang Y. Lin

*Art Unit:* 1725

*In re:*

*Applicant:* Bernhard KERN

*Serial No.:* 09/862,803

*Filed:* May 22, 2001

**SUPPLEMENTAL AMENDMENT**

September 8, 2003

Hon. Commissioner of  
Patents and Trademarks  
Washington, D.C. 20231

Sir:

This Amendment is submitted supplementary to the previous  
Amendment and in connection with the interview with the Examiner.

The Examiner indicated that the term "bubble" storage is not completely clear to him. It is respectfully submitted that the term "bubble" storage identifies a corresponding embodiment of the pressure storage. It serves for separation of the surrounding air from the protecting gas inside the closed system. In contrast to the solution disclosed in the patent to Braun, it is required in the closed system. In the open system of the patent to Braun it is not required.

In the patent to Braun, for obtaining a uniform casting jet, a conical shape is provided. However, this is performed for obtaining a uniform cast jet by the completing assymetrical induction coil arrangement and compensating palisade-shaped outer part of the retort. A utilization of this device for non-metallic light metals, such as for example magnesium or magnesium alloys, is operationally not possible.

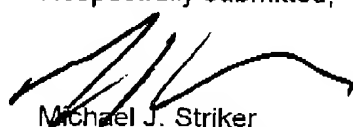
In the applicant's invention in contrast to this, the resistance heating provides a temperature drop for melting. The basic difference between the solution disclosed in the patent to Braun and the system disclosed in the present application is that in the patent to Braun there is an open system which is not possible for series production. In contrast, the applicant's invention deals with a closed system with low cost for series production.

The present invention as defined in the current claims is not disclosed in the prior art and can not be derived from it as a matter of obviousness. It is therefore respectfully requested to reconsider the rejection and to allow the present application.

Reconsideration and allowance of the present application is most respectfully requested.

Should the Examiner require or consider it advisable that the specification, claims and/or drawings be further amended or corrected in formal respects in order to place this case in condition for final allowance, then it is respectfully requested that such amendments or corrections be carried out by Examiner's Amendment, and the case be passed to issue. Alternatively, should the Examiner feel that a personal discussion might be helpful in advancing this case to allowance, he is invited to telephone the undersigned (at 631-549-4700).

Respectfully submitted,



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